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**Control of wort outflow from clarifying tank - measures outflow and determines time to increase vol. flow for clarifying**

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#### Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
DE 4324157	A1	19950126	DE 4324157	A	19930719	199510	B
WO 9503394	A1	19950202	WO 94EP1982	A	19940617	199510	
EP 710277	A1	19960508	WO 94EP1982	A	19940617	199623	
			EP 95906186	A	19940617		
BR 9407150	A	19960917	BR 947150	A	19940617	199643	
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			JP 95504880	A	19940617		

**Priority Applications (Number Kind Date):** DE 4324157 A ( 19930719)

**Cited Patents:** 02 journal ref.; DD 228821; DE 139480; EP 362793 ; SU 879568

#### Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
DE 4324157	A1		7	C12C-007/14	
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<b>Designated States (National):</b> BR CN JP US					
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BR 9407150	A			C12C-007/16	Based on patent WO 9503394
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DE 59403987	G			C12C-007/17	Based on patent EP 710277
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ES 2106638	T3			C12C-007/17	Based on patent EP 710277
JP 11501202	W		18	C12C-007/16	Based on patent WO 9503394
CN 1127526	A			C12C-007/16	

**Abstract:**

DE 4324157 A

A process to control the outflow of wort from a clarifying tank, partic. in beer prodn., is claimed. The process comprises measuring the amt. of wort overflow; comparing the measured and the preset amt.; and increasing or decreasing the amt. In addition, in at least one of the processes of the clarification stage, the outflow amt. of at least one phase (trending phase) is increased, achieved at set time intervals. The flow increase required to achieve the higher level is registered per time unit, to be used as a nominal value for the flow control.

Also claimed is an appts. with a control (17) connected to the flow vol. regulator (16), for control signals to be delivered to set the outflow vol. according to the measured outflow vol. values.

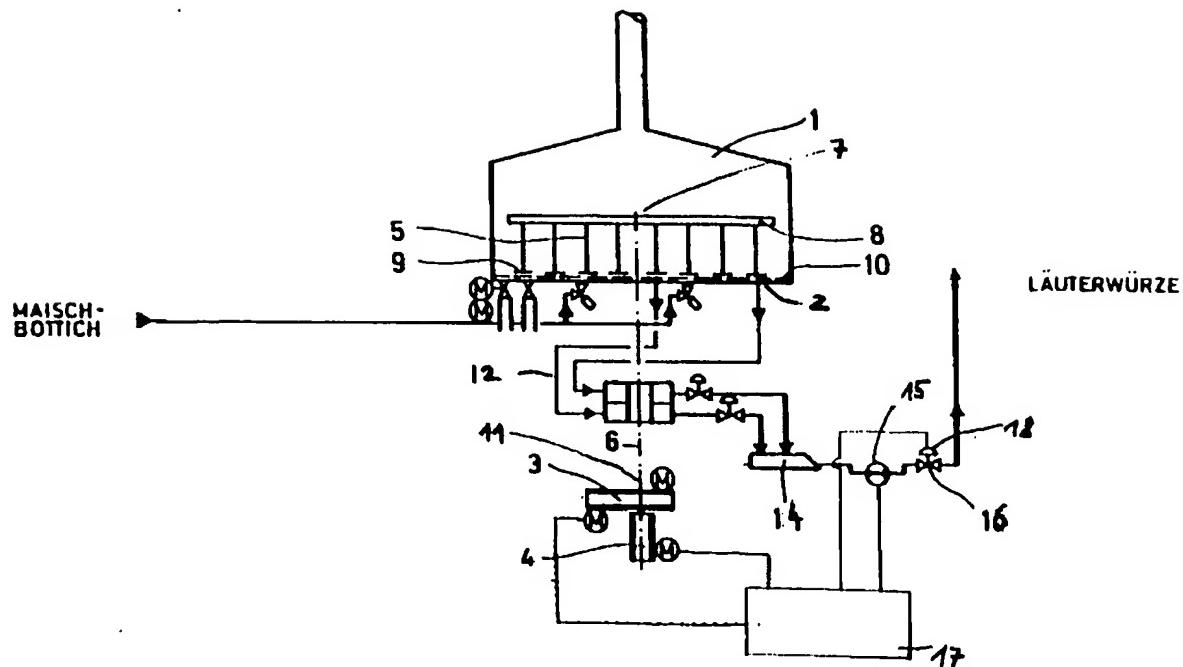
**ADVANTAGE** - The system reduces wort clarifying times under different conditions, types of beer to be brewed, and the compsn. of the materials.

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EP 710277 B

A method for controlling the wort outflow from a lauter tun, in particular during brewing, wherein the wort outflow quantity is measured and compared with at least one predetermined outflow value and an increase or decrease in the outflow quantity is regulated in accordance with the difference between set value and actual value, characterised in that in the course of a complete lautering process (first wort, second worts) a second increased outflow value which is to be reached within a specific time interval is predetermined in at least one phase (trending phase), based on the predetermined outflow value of the wort outflow, that the increase in flow rate per time unit (increase value) as required for achieving the second outflow value is determined on the basis of these values, and that said determined increase value is used as a set value for controlling an outflow regulator.

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